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<151> 2003-05-14

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tcatttaaat ttggccaggg agatcttcct aaacctatta acagtgattt cagatctgtt 1980

ttttctacaa aggaaggaca gtgggattgc agtgcatgtt tggtacaaaa tgaggggagc 2040

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cagaataact ccagacatga ctttgcaaaa tatgaaaggg acagaaagag tatggttgtg 600

gactgcatgt gattttgcag atggagaaag aaaagtagag catttagctg ttcgttttaa 660

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Ala Lys Leu Tyr Tyr Glu Ala Lys Glu Tyr Asp Leu Ala Lys Lys Tyr
35 40 45

Ile Cys Thr Tyr Ile Asn Val Gln Glu Arg Asp Pro Lys Ala His Arg
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Phe Leu Gly Leu Leu Tyr Glu Leu Glu Glu Asn Thr Asp Lys Ala Val
65 70 75 80

Glu Cys Tyr Arg Arg Ser Val Glu Leu Asn Pro Thr Gln Lys Asp Leu
85 90 95

Val Leu Lys Ile Ala Glu Leu Leu Cys Lys Asn Asp Val Thr Asp Gly
100 105 110

Arg Ala Lys Tyr Trp Leu Glu Arg Ala Ala Lys Leu Phe Pro Gly Ser
115 120 125

Pro Ala Ile Tyr Lys Leu Lys Glu Gln Leu Leu Asp Cys Glu Gly Glu
130 135 140

Asp Gly Trp Asn Lys Leu Phe Asp Leu Ile Gln Ser Glu Leu Tyr Val
145 150 155 160

Arg Pro Asp Asp Val His Val Asn Ile Arg Leu Val Glu Val Tyr Arg
165 170 175

Ser Thr Lys Arg Leu Lys Asp Ala Val Ala His Cys His Glu Ala Glu
180 185 190

Arg Asn Ile Ala Leu Arg Ser Ser Leu Glu Trp Asn Ser Cys Val Val
195 200 205

Gln Thr Leu Lys Glu Tyr Leu Glu Ser Leu Gln Cys Leu Glu Ser Asp
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Lys Ser Asp Trp Arg Ala Thr Asn Thr Asp Leu Leu Leu Ala Tyr Ala
225 230 235 240

Asn Leu Met Leu Leu Thr Leu Ser Thr Arg Asp Val Gln Glu Ser Arg
245 250 255

Glu Leu Leu Gln Ser Phe Asp Ser Ala Leu Gln Ser Val Lys Ser Leu
260 265 270

Gly Gly Asn Asp Glu Leu Ser Ala Thr Phe Leu Glu Met Lys Gly His
275 280 285

Phe Tyr Met His Ala Gly Ser Leu Leu Leu Lys Met Gly Gln His Ser
290 295 300

Ser Asn Val Gln Trp Arg Ala Leu Ser Glu Leu Ala Ala Leu Cys Tyr
305 310 315 320

Leu Ile Ala Phe Gln Val Pro Arg Pro Lys Ile Lys Leu Ile Lys Gly
325 330 335

Glu Ala Gly Gln Asn Leu Leu Glu Met Met Ala Cys Asp Arg Leu Ser
340 345 350

Gln Ser Gly His Met Leu Leu Asn Leu Ser Arg Gly Lys Gln Asp Phe
355 360 365

Leu Lys Glu Ile Val Glu Thr Phe Ala Asn Lys Ser Gly Gln Ser Ala
370 375 380

Leu Tyr Asp Ala Leu Phe Ser Ser Gln Ser Pro Lys Asp Thr Ser Phe
385 390 395 400

Leu Gly Ser Asp Asp Ile Gly Asn Ile Asp Val Arg Glu Pro Glu Leu
405 410 415

Glu Asp Leu Thr Arg Tyr Asp Val Gly Ala Ile Arg Ala His Asn Gly
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Ser Leu Gln His Leu Thr Trp Leu Gly Leu Gln Trp Asn Ser Leu Pro
435 440 445

Ala Leu Pro Gly Ile Arg Lys Trp Leu Lys Gln Leu Phe His His Leu
450 455 460

Pro His Glu Thr Ser Arg Leu Glu Thr Asn Ala Pro Glu Ser Ile Cys
465 470 475 480

Ile Leu Asp Leu Glu Val Phe Leu Leu Gly Val Val Tyr Thr Ser His
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Leu Gln Leu Lys Glu Lys Cys Asn Ser His His Ser Ser Tyr Gln Pro
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Leu Cys Leu Pro Leu Pro Val Cys Lys Gln Leu Cys Thr Glu Arg Gln
515 520 525

Lys Ser Trp Trp Asp Ala Val Cys Thr Leu Ile His Arg Lys Ala Val
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Pro Gly Asn Val Ala Lys Leu Arg Leu Leu Val Gln His Glu Ile Asn
545 550 555 560

Thr Leu Arg Ala Gln Glu Lys His Gly Leu Gln Pro Ala Leu Leu Val
565 570 575

His Trp Ala Glu Cys Leu Gln Lys Thr Gly Ser Gly Leu Asn Ser Phe
580 585 590

Tyr Asp Gln Arg Glu Tyr Ile Gly Arg Ser Val His Tyr Trp Lys Lys
595 600 605

Val Leu Pro Leu Leu Lys Ile Ile Lys Lys Lys Asn Ser Ile Pro Glu
610 615 620

Pro Ile Asp Pro Leu Phe Lys His Phe His Ser Val Asp Ile Gln Ala
625 630 635 640

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Ser Glu Ile Val Glu Tyr Glu Glu Asp Ala His Ile Thr Phe Ala Ile
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Leu Asp Ala Val Asn Gly Asn Ile Glu Asp Ala Val Thr Ala Phe Glu
            660                 665                 670

Ser Ile Lys Ser Val Val Ser Tyr Trp Asn Leu Ala Leu Ile Phe His
        675                 680                 685

Arg Lys Ala Glu Asp Ile Glu Asn Asp Ala Leu Ser Pro Glu Glu Gln
    690                 695                 700

Glu Glu Cys Lys Asn Tyr Leu Arg Lys Thr Arg Asp Tyr Leu Ile Lys
705                 710                 715                 720

Ile Ile Asp Asp Ser Asp Ser Asn Leu Ser Val Val Lys Lys Leu Pro
                725                 730                 735

Val Pro Leu Glu Ser Val Lys Glu Met Leu Asn Ser Val Met Gln Glu
            740                 745                 750

Leu Glu Asp Tyr Ser Glu Gly Gly Pro Leu Tyr Lys Asn Gly Ser Leu
        755                 760                 765

Arg Asn Ala Asp Ser Glu Ile Lys His Ser Thr Pro Ser Pro Thr Lys
    770                 775                 780

Tyr Ser Leu Ser Pro Ser Lys Ser Tyr Lys Tyr Ser Pro Lys Thr Pro
785                 790                 795                 800

Pro Arg Trp Ala Glu Asp Gln Asn Ser Leu Leu Lys Met Ile Cys Gln
                805                 810                 815

Gln Val Glu Ala Ile Lys Lys Glu Met Gln Glu Leu Lys Leu Asn Ser
            820                 825                 830

Ser Asn Ser Ala Ser Pro His Arg Trp Pro Thr Glu Asn Tyr Gly Pro
        835                 840                 845

Asp Ser Val Pro Asp Gly Tyr Gln Gly Ser Gln Thr Phe His Gly Ala
    850                 855                 860

Pro Leu Thr Val Ala Thr Thr Gly Pro Ser Val Tyr Tyr Ser Gln Ser
865                 870                 875                 880

Pro Ala Tyr Asn Ser Gln Tyr Leu Leu Arg Pro Ala Ala Asn Val Thr
                885                 890                 895
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Pro Thr Lys Gly Pro Val Tyr Gly Met Asn Arg Leu Pro Pro Gln Gln
            900                 905                 910

His Ile Tyr Ala Tyr Pro Gln Gln Met His Thr Pro Pro Val Gln Ser
        915                 920                 925

Ser Ser Ala Cys Met Phe Ser Gln Glu Met Tyr Gly Pro Pro Ala Leu
    930                 935                 940

Arg Phe Glu Ser Pro Ala Thr Gly Ile Leu Ser Pro Arg Gly Asp Asp
945                 950                 955                 960

Tyr Phe Asn Tyr Asn Val Gln Gln Thr Ser Thr Asn Pro Pro Leu Pro
                965                 970                 975

Glu Pro Gly Tyr Phe Thr Lys Pro Pro Ile Ala Ala His Ala Ser Arg
            980                 985                 990

Ser Ala Glu Ser Lys Thr Ile Glu  Phe Gly Lys Thr Asn  Phe Val Gln
        995                 1000                1005

Pro Met  Pro Gly Glu Gly Leu  Arg Pro Ser Leu Pro  Thr Gln Ala
    1010                1015                1020

His Thr  Thr Gln Pro Thr Pro  Phe Lys Phe Asn Ser  Asn Phe Lys
    1025                1030                1035

Ser Asn  Asp Gly Asp Phe Thr  Phe Ser Ser Pro Gln  Val Val Thr
    1040                1045                1050

Gln Pro  Pro Pro Ala Ala Tyr  Ser Asn Ser Glu Ser  Leu Leu Gly
    1055                1060                1065

Leu Leu  Thr Ser Asp Lys Pro  Leu Gln Gly Asp Gly  Tyr Ser Gly
    1070                1075                1080

Ala Lys  Pro Ile Pro Gly Gly  Gln Thr Ile Gly Pro  Arg Asn Thr
    1085                1090                1095

Phe Asn  Phe Gly Ser Lys Asn  Val Ser Gly Ile Ser  Phe Thr Glu
    1100                1105                1110

Asn Met  Gly Ser Ser Gln Gln  Lys Asn Ser Gly Phe  Arg Arg Ser
    1115                1120                1125
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Asp Asp Met Phe Thr Phe His Gly Pro Gly Lys Ser Val Phe Gly
1130 1135 1140

Thr Pro Thr Leu Glu Thr Ala Asn Lys Asn His Glu Thr Asp Gly
1145 1150 1155

Gly Ser Ala His Gly Asp Asp Asp Asp Asp Gly Pro His Phe Glu
1160 1165 1170

Pro Val Val Pro Leu Pro Asp Lys Ile Glu Val Lys Thr Gly Glu
1175 1180 1185

Glu Asp Glu Glu Glu Phe Phe Cys Asn Arg Ala Lys Leu Phe Arg
1190 1195 1200

Phe Asp Val Glu Ser Lys Glu Trp Lys Glu Arg Gly Ile Gly Asn
1205 1210 1215

Val Lys Ile Leu Arg His Lys Thr Ser Gly Lys Ile Arg Leu Leu
1220 1225 1230

Met Arg Arg Glu Gln Val Leu Lys Ile Cys Ala Asn His Tyr Ile
1235 1240 1245

Ser Pro Asp Met Lys Leu Thr Pro Asn Ala Gly Ser Asp Arg Ser
1250 1255 1260

Phe Val Trp His Ala Leu Asp Tyr Ala Asp Glu Leu Pro Lys Pro
1265 1270 1275

Glu Gln Leu Ala Ile Arg Phe Lys Thr Pro Glu Glu Ala Ala Leu
1280 1285 1290

Phe Lys Cys Lys Phe Glu Glu Ala Gln Ser Ile Leu Lys Ala Pro
1295 1300 1305

Gly Thr Asn Val Ala Met Ala Ser Asn Gln Ala Val Arg Ile Val
1310 1315 1320

Lys Glu Pro Thr Ser His Asp Asn Lys Asp Ile Cys Lys Ser Asp
1325 1330 1335

Ala Gly Asn Leu Asn Phe Glu Phe Gln Val Ala Lys Lys Glu Gly
1340 1345 1350

Ser Trp Trp His Cys Asn Ser Cys Ser Leu Lys Asn Ala Ser Thr
1355 1360 1365

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Ala Lys  Lys Cys Val Ser Cys  Gln Asn Leu Asn Pro  Ser Asn Lys
    1370                 1375                 1380

Glu Leu  Val Gly Pro Pro Leu  Ala Glu Thr Val Phe  Thr Pro Lys
    1385                 1390                 1395

Thr Ser  Pro Glu Asn Val Gln  Asp Arg Phe Ala Leu  Val Thr Pro
    1400                 1405                 1410

Lys Lys  Glu Gly His Trp Asp  Cys Ser Ile Cys Leu  Val Arg Asn
    1415                 1420                 1425

Glu Pro  Thr Val Ser Arg Cys  Ile Ala Cys Gln Asn  Thr Lys Ser
    1430                 1435                 1440

Ala Asn  Lys Ser Gly Ser Ser  Phe Val His Gln Ala  Ser Phe Lys
    1445                 1450                 1455

Phe Gly  Gln Gly Asp Leu Pro  Lys Pro Ile Asn Ser  Asp Phe Arg
    1460                 1465                 1470

Ser Val  Phe Ser Thr Lys Glu  Gly Gln Trp Asp Cys  Ser Ala Cys
    1475                 1480                 1485

Leu Val  Gln Asn Glu Gly Ser  Ser Thr Lys Cys Ala  Ala Cys Gln
    1490                 1495                 1500

Asn Pro  Arg Lys Gln Ser Leu  Pro Ala Thr Ser Ile  Pro Thr Pro
    1505                 1510                 1515

Ala Ser  Phe Lys Phe Gly Thr  Ser Glu Thr Ser Lys  Thr Leu Lys
    1520                 1525                 1530

Ser Gly  Phe Glu Asp Met Phe  Ala Lys Lys Glu Gly  Gln Trp Asp
    1535                 1540                 1545

Cys Ser  Ser Cys Leu Val Arg  Asn Glu Ala Asn Ala  Thr Arg Cys
    1550                 1555                 1560

Val Ala  Cys Gln Asn Pro Asp  Lys Pro Ser Pro Ser  Thr Ser Val
    1565                 1570                 1575

Pro Ala  Pro Ala Ser Phe Lys  Phe Gly Thr Ser Glu  Thr Ser Lys
    1580                 1585                 1590
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Ala Pro  Lys Ser Gly Phe Glu  Gly Met Phe Thr Lys  Lys Glu Gly
    1595                 1600                 1605

Gln Trp  Asp Cys Ser Val Cys  Leu Val Arg Asn Glu  Ala Ser Ala
    1610                 1615                 1620

Thr Lys  Cys Ile Ala Cys Gln  Asn Pro Gly Lys Gln  Asn Gln Thr
    1625                 1630                 1635

Thr Ser  Ala Val Ser Thr Pro  Ala Ser Ser Glu Thr  Ser Lys Ala
    1640                 1645                 1650

Pro Lys  Ser Gly Phe Glu Gly  Met Phe Thr Lys Lys  Glu Gly Gln
    1655                 1660                 1665

Trp Asp  Cys Ser Val Cys Leu  Val Arg Asn Glu Ala  Ser Ala Thr
    1670                 1675                 1680

Lys Cys  Ile Ala Cys Gln Asn  Pro Gly Lys Gln Asn  Gln Thr Thr
    1685                 1690                 1695

Ser Ala  Val Ser Thr Pro Ala  Ser Ser Glu Thr Ser  Lys Ala Pro
    1700                 1705                 1710

Lys Ser  Gly Phe Glu Gly Met  Phe Thr Lys Lys Glu  Gly Gln Trp
    1715                 1720                 1725

Asp Cys  Ser Val Cys Leu Val  Arg Asn Glu Ala Ser  Ala Thr Lys
    1730                 1735                 1740

Cys Ile  Ala Cys Gln Cys Pro  Ser Lys Gln Asn Gln  Thr Thr Ala
    1745                 1750                 1755

Ile Ser  Thr Pro Ala Ser Ser  Glu Ile Ser Lys Ala  Pro Lys Ser
    1760                 1765                 1770

Gly Phe  Glu Gly Met Phe Ile  Arg Lys Gly Gln Trp  Asp Cys Ser
    1775                 1780                 1785

Val Cys  Cys Val Gln Asn Glu  Ser Ser Ser Leu Lys  Cys Val Ala
    1790                 1795                 1800

Cys Asp  Ala Ser Lys Pro Thr  His Lys Pro Ile Ala  Glu Ala Pro
    1805                 1810                 1815

Ser Ala  Phe Thr Leu Gly Ser  Glu Met Lys Leu His  Asp Ser Ser
    1820                 1825                 1830
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Gly Ser  Gln Val Gly Thr Gly  Phe Lys Ser Asn Phe  Ser Glu Lys
    1835                 1840                 1845

Ala Ser  Lys Phe Gly Asn Thr  Glu Gln Gly Phe Lys  Phe Gly His
    1850                 1855                 1860

Val Asp  Gln Glu Asn Ser Pro  Ser Phe Met Phe Gln  Gly Ser Ser
    1865                 1870                 1875

Asn Thr  Glu Phe Lys Ser Thr  Lys Glu Gly Phe Ser  Ile Pro Val
    1880                 1885                 1890

Ser Ala  Asp Gly Phe Lys Phe  Gly Ile Ser Glu Pro  Gly Asn Gln
    1895                 1900                 1905

Glu Lys  Lys Ser Glu Lys Pro  Leu Glu Asn Gly Thr  Gly Phe Gln
    1910                 1915                 1920

Ala Gln  Asp Ile Ser Gly Gln  Lys Asn Gly Arg Gly  Val Ile Phe
    1925                 1930                 1935

Gly Gln  Thr Ser Ser Thr Phe  Thr Phe Ala Asp Leu  Ala Lys Ser
    1940                 1945                 1950

Thr Ser  Gly Glu Gly Phe Gln  Phe Gly Lys Lys Asp  Pro Asn Phe
    1955                 1960                 1965

Lys Gly  Phe Ser Gly Ala Gly  Glu Lys Leu Phe Ser  Ser Gln Tyr
    1970                 1975                 1980

Gly Lys  Met Ala Asn Lys Ala  Asn Thr Ser Gly Asp  Phe Glu Lys
    1985                 1990                 1995

Asp Asp  Asp Ala Tyr Lys Thr  Glu Asp Ser Asp Asp  Ile His Phe
    2000                 2005                 2010

Glu Pro  Val Val Gln Met Pro  Glu Lys Val Glu Leu  Val Thr Gly
    2015                 2020                 2025

Glu Glu  Asp Glu Lys Val Leu  Tyr Ser Gln Arg Val  Lys Leu Phe
    2030                 2035                 2040

Arg Phe  Asp Ala Glu Val Ser  Gln Trp Lys Glu Arg  Gly Leu Gly
    2045                 2050                 2055
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Asn Leu Lys Ile Leu Lys Asn Glu Val Asn Gly Lys Leu Arg Met
2060 2065 2070

Leu Met Arg Arg Glu Gln Val Leu Lys Val Cys Ala Asn His Trp
2075 2080 2085

Ile Thr Thr Thr Met Asn Leu Lys Pro Leu Ser Gly Ser Asp Arg
2090 2095 2100

Ala Trp Met Trp Leu Ala Ser Asp Phe Ser Asp Gly Asp Ala Lys
2105 2110 2115

Leu Glu Gln Leu Ala Ala Lys Phe Lys Thr Pro Glu Leu Ala Glu
2120 2125 2130

Glu Phe Lys Gln Lys Phe Glu Glu Cys Gln Arg Leu Leu Leu Asp
2135 2140 2145

Ile Pro Leu Gln Thr Pro His Lys Leu Val Asp Thr Gly Arg Ala
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Ala Lys Leu Ile Gln Arg Ala Glu Glu Met Lys Ser Gly Leu Lys
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Asp Phe Lys Thr Phe Leu Thr Asn Asp Gln Thr Lys Val Thr Glu
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Glu Glu Asn Lys Gly Ser Gly Thr Gly Ala Ala Gly Ala Ser Asp
2195 2200 2205

Thr Thr Ile Lys Pro Asn Pro Glu Asn Thr Gly Pro Thr Leu Glu
2210 2215 2220

Trp Asp Asn Tyr Asp Leu Arg Glu Asp Ala Leu Asp Asp Ser Val
2225 2230 2235

Ser Ser Ser Ser Val His Ala Ser Pro Leu Ala Ser Ser Pro Val
2240 2245 2250

Arg Lys Asn Leu Phe Arg Phe Gly Glu Ser Thr Thr Gly Phe Asn
2255 2260 2265

Phe Ser Phe Lys Ser Ala Leu Ser Pro Ser Lys Ser Pro Ala Lys
2270 2275 2280

Leu Asn Gln Ser Gly Thr Ser Val Gly Thr Asp Glu Glu Ser Asp
2285 2290 2295

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Val Thr  Gln Glu Glu Glu Arg  Asp Gly Gln Tyr Phe  Glu Pro Val
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Val Pro  Leu Pro Asp Leu Val  Glu Val Ser Ser Gly  Glu Glu Asn
    2315                 2320                 2325

Glu Gln  Val Val Phe Ser His  Arg Ala Lys Leu Tyr  Arg Tyr Asp
    2330                 2335                 2340

Lys Asp  Val Gly Gln Trp Lys  Glu Arg Gly Ile Gly  Asp Ile Lys
    2345                 2350                 2355

Ile Leu  Gln Asn Tyr Asp Asn  Lys Gln Val Arg Ile  Val Met Arg
    2360                 2365                 2370

Arg Asp  Gln Val Leu Lys Leu  Cys Ala Asn His Arg  Ile Thr Pro
    2375                 2380                 2385

Asp Met  Thr Leu Gln Asn Met  Lys Gly Thr Glu Arg  Val Trp Leu
    2390                 2395                 2400

Trp Thr  Ala Cys Asp Phe Ala  Asp Gly Glu Arg Lys  Val Glu His
    2405                 2410                 2415

Leu Ala  Val Arg Phe Lys Leu  Gln Asp Val Ala Asp  Ser Phe Lys
    2420                 2425                 2430

Lys Ile  Phe Asp Glu Ala Lys  Thr Ala Gln Glu Lys  Asp Ser Leu
    2435                 2440                 2445

Ile Thr  Pro His Val Ser Arg  Ser Ser Thr Pro Arg  Glu Ser Pro
    2450                 2455                 2460

Cys Gly  Lys Ile Ala Val Ala  Val Leu Glu Glu Thr  Thr Arg Glu
    2465                 2470                 2475

Arg Thr  Asp Val Ile Gln Gly  Asp Asp Val Ala Asp  Ala Thr Ser
    2480                 2485                 2490

Glu Val  Glu Val Ser Ser Thr  Ser Glu Thr Thr Pro  Lys Ala Val
    2495                 2500                 2505

Val Ser  Pro Pro Lys Phe Val  Phe Gly Ser Glu Ser  Val Lys Ser
    2510                 2515                 2520
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Ile Phe  Ser Ser Glu Lys Ser  Lys Pro Phe Ala Phe  Gly Asn Ser
    2525                 2530                 2535

Ser Ala  Thr Gly Ser Leu Phe  Gly Phe Ser Phe Asn  Ala Pro Leu
    2540                 2545                 2550

Lys Ser  Asn Asn Ser Glu Thr  Ser Ser Val Ala Gln  Ser Gly Ser
    2555                 2560                 2565

Glu Ser  Lys Val Glu Pro Lys  Lys Cys Glu Leu Ser  Lys Asn Ser
    2570                 2575                 2580

Asp Ile  Glu Gln Ser Ser Asp  Ser Lys Val Lys Asn  Leu Phe Ala
    2585                 2590                 2595

Ser Phe  Pro Thr Glu Glu Ser  Ser Ile Asn Tyr Thr  Phe Lys Thr
    2600                 2605                 2610

Pro Glu  Lys Ala Lys Glu Lys  Lys Lys Pro Glu Asp  Ser Pro Ser
    2615                 2620                 2625

Asp Asp  Asp Val Leu Ile Val  Tyr Glu Leu Thr Pro  Thr Ala Glu
    2630                 2635                 2640

Gln Lys  Ala Leu Ala Thr Lys  Leu Lys Leu Pro Pro  Thr Phe Phe
    2645                 2650                 2655

Cys Tyr  Lys Asn Arg Pro Asp  Tyr Val Ser Glu Glu  Glu Glu Asp
    2660                 2665                 2670

Asp Glu  Asp Phe Glu Thr Ala  Val Lys Lys Leu Asn  Gly Lys Leu
    2675                 2680                 2685

Tyr Leu  Asp Gly Ser Glu Lys  Cys Arg Pro Leu Glu  Glu Asn Thr
    2690                 2695                 2700

Ala Asp  Asn Glu Lys Glu Cys  Ile Ile Val Trp Glu  Lys Lys Pro
    2705                 2710                 2715

Thr Val  Glu Glu Lys Ala Lys  Ala Asp Thr Leu Lys  Leu Pro Pro
    2720                 2725                 2730

Thr Phe  Phe Cys Gly Val Cys  Ser Asp Thr Asp Glu  Asp Asn Gly
    2735                 2740                 2745

Asn Gly  Glu Asp Phe Gln Ser  Glu Leu Gln Lys Val  Gln Glu Ala
    2750                 2755                 2760
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Gln Lys Ser Gln Thr Glu Glu Ile Thr Ser Thr Thr Asp Ser Val
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Tyr Thr Gly Gly Thr Glu Val Met Val Pro Ser Phe Cys Lys Ser
2780 2785 2790

Glu Glu Pro Asp Ser Ile Thr Lys Ser Ile Ser Ser Pro Ser Val
2795 2800 2805

Ser Ser Glu Thr Met Asp Lys Pro Val Asp Leu Ser Thr Arg Lys
2810 2815 2820

Glu Ile Asp Thr Asp Ser Thr Ser Gln Gly Glu Ser Lys Ile Val
2825 2830 2835

Ser Phe Gly Phe Gly Ser Ser Thr Gly Leu Ser Phe Ala Asp Leu
2840 2845 2850

Ala Ser Ser Asn Ser Gly Asp Phe Ala Phe Gly Ser Lys Asp Lys
2855 2860 2865

Asn Phe Gln Trp Ala Asn Thr Gly Ala Ala Val Phe Gly Thr Gln
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Ser Val Gly Thr Gln Ser Ala Gly Lys Val Gly Glu Asp Glu Asp
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Gly Ser Asp Glu Glu Val Val His Asn Glu Asp Ile His Phe Glu
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Pro Ile Val Ser Leu Pro Glu Val Glu Val Lys Ser Gly Glu Glu
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Asp Glu Glu Ile Leu Phe Lys Glu Arg Ala Lys Leu Tyr Arg Trp
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Asp Arg Asp Val Ser Gln Trp Lys Glu Arg Gly Val Gly Asp Ile
2945 2950 2955

Lys Ile Leu Trp His Thr Met Lys Asn Tyr Tyr Arg Ile Leu Met
2960 2965 2970

Arg Arg Asp Gln Val Phe Lys Val Cys Ala Asn His Val Ile Thr
2975 2980 2985

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Lys Thr  Met Glu Leu Lys Pro  Leu Asn Val Ser Asn  Asn Ala Leu
    2990                 2995                 3000

Val Trp  Thr Ala Ser Asp Tyr  Ala Asp Gly Glu Ala  Lys Val Glu
    3005                 3010                 3015

Gln Leu  Ala Val Arg Phe Lys  Thr Lys Glu Val Ala  Asp Cys Phe
    3020                 3025                 3030

Lys Lys  Thr Phe Glu Glu Cys  Gln Gln Asn Leu Met  Lys Leu Gln
    3035                 3040                 3045

Lys Gly  His Val Ser Leu Ala  Ala Glu Leu Ser Lys  Glu Thr Asn
    3050                 3055                 3060

Pro Val  Val Phe Phe Asp Val  Cys Ala Asp Gly Glu  Pro Leu Gly
    3065                 3070                 3075

Arg Ile  Thr Met Glu Leu Phe  Ser Asn Ile Val Pro  Arg Thr Ala
    3080                 3085                 3090

Glu Asn  Phe Arg Ala Leu Cys  Thr Gly Glu Lys Gly  Phe Gly Phe
    3095                 3100                 3105

Lys Asn  Ser Ile Phe His Arg  Val Ile Pro Asp Phe  Val Cys Gln
    3110                 3115                 3120

Gly Gly  Asp Ile Thr Lys His  Asp Gly Thr Gly Gly  Gln Ser Ile
    3125                 3130                 3135

Tyr Gly  Asp Lys Phe Glu Asp  Glu Asn Phe Asp Val  Lys His Thr
    3140                 3145                 3150

Gly Pro  Gly Leu Leu Ser Met  Ala Asn Gln Gly Gln  Asn Thr Asn
    3155                 3160                 3165

Asn Ser  Gln Phe Val Ile Thr  Leu Lys Lys Ala Glu  His Leu Asp
    3170                 3175                 3180

Phe Lys  His Val Val Phe Gly  Phe Val Lys Asp Gly  Met Asp Thr
    3185                 3190                 3195

Val Lys  Lys Ile Glu Ser Phe  Gly Ser Pro Lys Gly  Ser Val Cys
    3200                 3205                 3210

Arg Arg  Ile Thr Ile Thr Glu  Cys Gly Gln Ile
    3215                 3220
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